

### Listing of the Claims

Claims 1-12 (Cancelled).

5 13. (Currently Amended) A method of controlling a gap between at least one fixed plate and an electrostatically movable plate in a MEMs device, comprising:

time modulating a control signal to a controlled current output that is variable voltage compliant to represent a desired gap between the fixed plate and the electrostatically movable plate;

10 selectively routing a charge which is a function of the controlled current output and the modulated time to array elements each including control circuitry and one of the plurality of electro-mechanical devices; and

displacing the electrostatically movable plate in response to the controlled current output.

15 14. (Currently Amended) The method as defined in claim 13, wherein selectively routing a charge comprises selectively mirroring a reference current onto ~~[[a]]the~~ controlled current output coupled to the MEMs device on the basis of the time modulated control signal

20 15. (Currently Amended) The method of claim ~~[[13]]14~~,

wherein selectively mirroring the reference current selectively mirrors the reference current onto a plurality of controlled current outputs, each of the plurality of controlled current outputs being coupled to one of a plurality of MEMs devices, and

25 wherein displacing the electrostatically movable plate displaces an electrostatically movable plate in each of the plurality of MEMs devices in response to a corresponding controlled current output.

30 16. (Currently Amended) The method of claim ~~[[13]]14~~, further comprising: generating the reference current.

17. (Original) The method of claim 16, further comprising:

adjusting the reference current to represent the desired gap between the fixed plate and the electrostatically movable plate.

5 18. (Currently Amended) The method of claim ~~[[13]]~~14, wherein selectively mirroring the reference current onto the controlled current output generates ~~[[a]]~~the variable voltage compliant controlled current output.

19. (Original) The method of claim 13, further comprising selectively setting a  
10 predetermined charge in the MEMs device before displacing the electrostatically movable plate in response to the controlled current output.

Claims 20-33 (Cancelled).

15 34. (Currently Amended) ~~[[A]]~~An apparatus for controlling a gap between at least one fixed plate and an electrostatically movable plate in a MEMs device, comprising:

means for selectively setting a reference current onto a controlled current output that is variable voltage compliant, the controlled current output coupled to  
20 the MEMs device on the basis of the time modulated control signal;

means for time modulating a control signal to represent a desired gap between the fixed plate and the electrostatically movable plate by a charge which is a function of the controlled current output and the modulated time; and

25 means for displacing the electrostatically movable plate in response to the controlled current output.